

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/922,067F
Source: IFW/b
Date Processed by STIC: 1/3/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/922,067F

CRF Edit Date: 1/4/05
Edited by: Ar

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

J Deleted: J invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

J Other: Sequence 7 - deleted <220> response



IFW16

RAW SEQUENCE LISTING

DATE: 01/04/2005

PATENT APPLICATION: US/09/922,067F

TIME: 09:17:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

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4 <110> APPLICANT: MacPhee, Colin Houston
5      Tew, David Graham
6      Southan, Christopher Donald
7      Hickey, Deirdre Mary Bernadette
8      Gloger, Israel Simon
9      Lawrence, Geoffrey Mark Prouse
10     Rice, Simon Quentyn John
12 <120> TITLE OF INVENTION: Lipoprotein Associated Phospholipase A2,
13     Inhibitors Thereof and Use of the Same in Diagnosis and
14     Therapy
16 <130> FILE REFERENCE: P30693C4X1C1
18 <140> CURRENT APPLICATION NUMBER: 09/922,067F
19 <141> CURRENT FILING DATE: 2001-08-03
21 <150> PRIOR APPLICATION NUMBER: 09/193,130
22 <151> PRIOR FILING DATE: 2000-11-28
24 <150> PRIOR APPLICATION NUMBER: 08/387,858
25 <151> PRIOR FILING DATE: 1994-06-24
27 <150> PRIOR APPLICATION NUMBER: PCT/GB94/01374
28 <151> PRIOR FILING DATE: 1994-06-24
30 <150> PRIOR APPLICATION NUMBER: GB 9313144.9
31 <151> PRIOR FILING DATE: 1993-06-25
33 <160> NUMBER OF SEQ ID NOS: 14
35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
37 <210> SEQ ID NO: 1
38 <211> LENGTH: 37
39 <212> TYPE: PRT
40 <213> ORGANISM: Homo sapien
42 <400> SEQUENCE: 1
43 Met Leu Lys Leu Lys Gly Asp Ile Asp Ser Asn Ala Ala Ile Asp Leu
44 1          5          10          15
45 Ser Asn Lys Ala Ser Leu Ala Phe Leu Gln Lys His Leu Gly Leu His
46          20          25          30
47 Lys Asp Phe Asp Gln
48          35
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 30
53 <212> TYPE: PRT
54 <213> ORGANISM: Homo sapien
56 <400> SEQUENCE: 2
57 Trp Met Phe Pro Leu Gly Asp Glu Val Tyr Ser Arg Ile Pro Gln Pro
58 1          5          10          15
59 Leu Phe Phe Ile Asn Ser Glu Tyr Phe Gln Tyr Pro Ala Asn
60          20          25          30

```

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TIME: 09:17:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

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63 <210> SEQ ID NO: 3
64 <211> LENGTH: 27
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapien
68 <400> SEQUENCE: 3
69 Gln Tyr Ile Asn Pro Ala Val Met Ile Thr Ile Arg Gly Ser Val His
70 1 5 10 15
71 Gln Asn Phe Ala Asp Phe Thr Phe Ala Thr Gly
72 20 25
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 19
77 <212> TYPE: PRT
78 <213> ORGANISM: Homo sapien
80 <400> SEQUENCE: 4
81 Trp Leu Met Gly Asn Ile Leu Arg Leu Leu Phe Gly Ser Met Thr Thr
82 1 5 10 15
83 Pro Ala Asn
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 420
89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapien
92 <220> FEATURE:
93 <221> NAME/KEY: misc_feature
94 <222> LOCATION: 265, 390, 395, 403, 406
95 <223> OTHER INFORMATION: n = A,T,C or G
97 <400> SEQUENCE: 5
98 aaaaaaaccta ttttaatect aattgtatct ctctattcct gaagagttct gtaacatgat 60
99 gtgttgattg gttgtgttaa tggtggctcc tgggaataaga ttctcatcat ctcttcaat 120
100 caagcagtc cactgatcaa aatctttatg aagtcctaaa tgcttttgta agaatgctaa 180
101 tgaagctttg ttgctaagat caatagctgc atttgaatct atgtctcct ttaatttgag 240
W--> 102 catgtgtcca attattttgc cagtngcaaa agtgaagtca gcaaaattct ggtggactga 300
103 acccctgatt gtaatcatct ttctttcttt atcaggtgag tagcattttt tcatttttat 360
104 gatattagca ggatattgga aatattcagn gttgntaaaa agngngnggt gagggattct 420
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 379
109 <212> TYPE: DNA
110 <213> ORGANISM: Homo sapien
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: 84
115 <223> OTHER INFORMATION: n = A,T,C or G
117 <400> SEQUENCE: 6
118 tgctaatatc ataaaaatga aaaaatgcta ctcacctgat aaagaaagaa agatgattac 60
W--> 119 aatcaggggt tcaagtcacc aganttttgc tgacttcact tttgcaactg gcaaaataat 120
120 tggacacatg ctcaaattaa agggagacat agattcaaat gtagctattg atcttagcaa 180
121 caaagcttca ttagcattct tacaaaagca tttaggactt cataaagatt ttgttcagt 240
122 ggactgcttg attgaaggag atgatgagaa tcttattcca gggaccaaca ttaacacaac 300
123 caattcaaca catcatgttt acagaacttc ttccagggaa taggaggaaa tacaattggg 360
124 gtttaaaata ggttttttt 379

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RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/922,067F

TIME: 09:17:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

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126 <210> SEQ ID NO: 7
127 <211> LENGTH: 279
128 <212> TYPE: DNA
129 <213> ORGANISM: Homo sapien
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: 257
134 <223> OTHER INFORMATION: n = A,T,C or G
136 <400> SEQUENCE: 7
137 gaagaatgca ttagatttaa agtttgatat ggaacaactg aaggactcta ttgatagga 60
138 aaaaatagca gtaattggac attcttttgg tggagcaacg gttattcaga ctcttagtga 120
139 agatcagaga ttcagatgtg gtattgccct ggatgcatgg atgtttccac tgggtgatga 180
140 agtatattcc agaattcctc agccctcttt ttttatcaac tctgaatatt tccaatatcc 240
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143 <210> SEQ ID NO: 8
144 <211> LENGTH: 572
145 <212> TYPE: DNA
146 <213> ORGANISM: Homo sapien
148 <400> SEQUENCE: 8
149 aaaatagcag taattggaca ttcttttaggt ggagcaacgg ttattcagac tcttagtgaa 60
150 gatcagagat tcagatgtgg tattgccctg gatgcatgga tgtttccact ggggtgatga 120
151 gtatatcca gaattcctca gcccctcttt tttatcaact ctgaatattt ccaatatcct 180
152 gctaatatca taaaaatgaa aaaatgctac tcacctgata aagaaagaaa gatgattaca 240
153 atcaggggtt cagtcacca gaattttgct gacttcactt ttgcaactgg caaataatt 300
154 ggacacatgc tcaaatataa gggagacata gattcaaatt tagctattga tcttagcaac 360
155 aaagcttcat cagcattctt acaaaagcat ttaggacttc ataaagattt tgatcagtgg 420
156 gactgcttga ttgaaggaga tgatgagaat cttattccag ggaccaacat taacacaacc 480
157 aatcaacaca tcatgttaca gaactcttca ggaatagaga aatacaatta ggattaaaat 540
158 aggtttttta aaaaaaaaaa aaaaaaaact cg 572
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 1361
162 <212> TYPE: DNA
163 <213> ORGANISM: Homo sapien
165 <400> SEQUENCE: 9
166 tgagagacta agctgaaact gctgctcagc tccaagatg gtgccacca aattgcatgt 60
167 gcttttctgc ctctgcggct gctggtgtgt ggtttatcct tttgactggc aatacataaa 120
168 tcctgttgcc catatgaaat catcagcatg ggtcaacaaa atacaagtac tgatggctgc 180
169 tgcaagcttt ggccaaacta aaatcccccg gggaaatggg ccttattccg ttggtgttac 240
170 agacttaatg tttgatcaca ctaataaggg caccttcttg cgtttatatt atccatccca 300
171 agataatgat cgccttgaca ccctttggat cccaaataaa gaatattttt ggggtcttag 360
172 caaatctctt ggaacacact ggcttatggg caacattttg aggttactct ttggttcaat 420
173 gacaactcct gcaactgga attcccctct gaggcctggt gaaaaatata cacttgttgt 480
174 tttttctcat ggtcttgggg cattcaggac actttattct gctattggca ttgacctggc 540
175 atctcatggg tttatagttg ctgctgtaga acacagagat agatctgcat ctgcaactta 600
176 ctatttcaag gaccaatctg ctgcagaaat aggggacaag tcttggtctt acctagaaac 660
177 cctgaaacaa gaggaggaga cacatatacg aaatgagcag gtacggcaaa gagcaaaaga 720
178 atgttcccaa gctctcagtc tgattcttga cattgatcat ggaaagccag tgaagaatgc 780
179 attagattta agtttgata tggacaact gaaggactct attgataggg aaaaatagc 840
180 agtaattgga cattcttttg gtggagcaac ggttattcag actcttagtg aagatcagag 900

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RAW SEQUENCE LISTING

DATE: 01/04/2005

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

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181 attcagatgt ggtattgccc tggatgcatg gatgtttcca ctgggtgatg aagtatattc 960
182 cagaattcct cagccctct ttttatcaa ctctgaatat ttccaatata ctgctaatat 1020
183 cataaaaatg aaaaaatgct actcacctga taaagaaaga aagatgatta caatcagggg 1080
184 ttcagtccac cagaattttg ctgacttcac ttttgcaact ggcaaaataa ttggacacat 1140
185 gctcaaatta aaggagaca tagattcaaa tgcagctatt gatcttagca acaaagcttc 1200
186 attagcattc ttacaaaagc atttaggact tcataaagat tttgatcagt gggactgctt 1260
187 gattgaagga gatgatgaga atcttattcc aggaccaac attaacacaa ccaatcaaca 1320
188 catcatgtta cagaactctt caggaataga gaaatacaat t 1361

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191 <210> SEQ ID NO: 10

192 <211> LENGTH: 7

193 <212> TYPE: PRT

194 <213> ORGANISM: Homo sapien

196 <400> SEQUENCE: 10

197 Gln Tyr Ile Asn Pro Val Ala

198 1 5

201 <210> SEQ ID NO: 11

202 <211> LENGTH: 20

203 <212> TYPE: PRT

204 <213> ORGANISM: Homo sapien

206 <400> SEQUENCE: 11

207 Met Ile Thr Ile Arg Gly Ser Val His Gln Asn Phe Ala Asp Phe Thr

208 1 5 10 15

209 Phe Ala Thr Gly

210 20

213 <210> SEQ ID NO: 12

214 <211> LENGTH: 7

215 <212> TYPE: PRT

216 <213> ORGANISM: Homo sapien

218 <400> SEQUENCE: 12

219 Gln Tyr Ile Asn Pro Ala Val

220 1 5

223 <210> SEQ ID NO: 13

224 <211> LENGTH: 5

225 <212> TYPE: PRT

226 <213> ORGANISM: Homo sapien

228 <400> SEQUENCE: 13

229 Gln Tyr Ile Asn Pro

230 1 5

233 <210> SEQ ID NO: 14

234 <211> LENGTH: 441

235 <212> TYPE: PRT

236 <213> ORGANISM: Homo sapien

238 <400> SEQUENCE: 14

239 Met Val Pro Pro Lys Leu

240 1 5

242 His Val Leu Phe Cys Leu Cys Gly Cys Leu Ala Val Val Tyr Pro Phe

243 10 15 20

245 Asp Trp Gln Tyr Ile Asn Pro Val Ala His Met Lys Ser Ser Ala Trp

246 25 30 35

RAW SEQUENCE LISTING

DATE: 01/04/2005

PATENT APPLICATION: US/09/922,067F

TIME: 09:17:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

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248 Val Asn Lys Ile Gln Val Leu Met Ala Ala Ala Ser Phe Gly Gln Thr
249      40      45      50
251 Lys Ile Pro Arg Gly Asn Gly Pro Tyr Ser Val Gly Cys Thr Asp Leu
252 55      60      65      70
254 Met Phe Asp His Thr Asn Lys Gly Thr Phe Leu Arg Leu Tyr Tyr Pro
255      75      80      85
257 Ser Gln Asp Asn Asp Arg Leu Asp Thr Leu Trp Ile Pro Asn Lys Glu
258      90      95      100
260 Tyr Phe Trp Gly Leu Ser Lys Phe Leu Gly Thr His Trp Leu Met Gly
261      105      110      115
263 Asn Ile Leu Arg Leu Leu Phe Gly Ser Met Thr Thr Pro Ala Asn Trp
264      120      125      130
266 Asn Ser Pro Leu Arg Pro Gly Glu Lys Tyr Pro Leu Val Val Phe Ser
267 135      140      145      150
269 His Gly Leu Gly Ala Phe Arg Thr Leu Tyr Ser Ala Ile Gly Ile Asp
270      155      160      165
272 Leu Ala Ser His Gly Phe Ile Val Ala Ala Val Glu His Arg Asp Arg
273      170      175      180
275 Ser Ala Ser Ala Thr Tyr Tyr Phe Lys Asp Gln Ser Ala Ala Glu Ile
276      185      190      195
278 Gly Asp Lys Ser Trp Leu Tyr Leu Arg Thr Leu Lys Gln Glu Glu Glu
279      200      205      210
281 Thr His Ile Arg Asn Glu Gln Val Arg Gln Arg Ala Lys Glu Cys Ser
282 215      220      225      230
284 Gln Ala Leu Ser Leu Ile Leu Asp Ile Asp His Gly Lys Pro Val Lys
285      235      240      245
287 Asn Ala Leu Asp Leu Lys Phe Asp Met Glu Gln Leu Lys Asp Ser Ile
288      250      255      260
290 Asp Arg Glu Lys Ile Ala Val Ile Gly His Ser Phe Gly Gly Ala Thr
291      265      270      275
293 Val Ile Gln Thr Leu Ser Glu Asp Gln Arg Phe Arg Cys Gly Ile Ala
294      280      285      290
296 Leu Asp Ala Trp Met Phe Pro Leu Gly Asp Glu Val Tyr Ser Arg Ile
297 295      300      305      310
299 Pro Gln Pro Leu Phe Phe Ile Asn Ser Glu Tyr Phe Gln Tyr Pro Ala
300      315      320      325
302 Asn Ile Ile Lys Met Lys Lys Cys Tyr Ser Pro Asp Lys Glu Arg Lys
303      330      335      340
305 Met Ile Thr Ile Arg Gly Ser Val His Gln Asn Phe Ala Asp Phe Thr
306      345      350      355
308 Phe Ala Thr Gly Lys Ile Ile Gly His Met Leu Lys Leu Lys Gly Asp
309      360      365      370
311 Ile Asp Ser Asn Ala Ala Ile Asp Leu Ser Asn Lys Ala Ser Leu Ala
312 375      380      385      390
314 Phe Leu Gln Lys His Leu Gly Leu His Lys Asp Phe Asp Gln Trp Asp
315      395      400      405
317 Cys Leu Ile Glu Gly Asp Asp Glu Asn Leu Ile Pro Gly Thr Asn Ile
318      410      415      420
320 Asn Thr Thr Asn Gln His Ile Met Leu Gln Asn Ser Ser Gly Ile Glu

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/922,067F

DATE: 01/04/2005
TIME: 09:17:42

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01042005\I922067F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 265,390,395,403,406

Seq#:6; N Pos. 84

Seq#:7; N Pos. 257

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/922,067F

DATE: 01/04/2005

TIME: 09:17:42

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:240
M:341 Repeated in SeqNo=5
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240



IFW16

RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

4 <110> APPLICANT: MacPhee, Colin Houston
 5 Tew, David Graham
 6 Southan, Christopher Donald
 7 Hickey, Deirdre Mary Bernadette
 8 Gloger, Israel Simon
 9 Lawrence, Geoffrey Mark Prouse
 10 Rice, Simon Quentyn John
 12 <120> TITLE OF INVENTION: Lipoprotein Associated Phospholipase A2,
 13 Inhibitors Thereof and Use of the Same in Diagnosis and
 14 Therapy
 16 <130> FILE REFERENCE: P30693C4X1C1
 18 <140> CURRENT APPLICATION NUMBER: 09/922,067F
 19 <141> CURRENT FILING DATE: 2001-08-03
 21 <150> PRIOR APPLICATION NUMBER: 09/193,130
 22 <151> PRIOR FILING DATE: 2000-11-28
 24 <150> PRIOR APPLICATION NUMBER: 08/387,858
 25 <151> PRIOR FILING DATE: 1994-06-24
 27 <150> PRIOR APPLICATION NUMBER: PCT/GB94/01374
 28 <151> PRIOR FILING DATE: 1994-06-24
 30 <150> PRIOR APPLICATION NUMBER: GB 9313144.9
 31 <151> PRIOR FILING DATE: 1993-06-25
 33 <160> NUMBER OF SEQ ID NOS: 14
 35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 37 <210> SEQ ID NO: 1
 38 <211> LENGTH: 37
 39 <212> TYPE: PRT
 40 <213> ORGANISM: Homo sapien
 42 <400> SEQUENCE: 1
 43 Met Leu Lys Leu Lys Gly Asp Ile Asp Ser Asn Ala Ala Ile Asp Leu
 44 1 5 10 15
 45 Ser Asn Lys Ala Ser Leu Ala Phe Leu Gln Lys His Leu Gly Leu His
 46 20 25 30
 47 Lys Asp Phe Asp Gln
 48 35
 51 <210> SEQ ID NO: 2
 52 <211> LENGTH: 30
 53 <212> TYPE: PRT
 54 <213> ORGANISM: Homo sapien
 56 <400> SEQUENCE: 2
 57 Trp Met Phe Pro Leu Gly Asp Glu Val Tyr Ser Arg Ile Pro Gln Pro
 58 1 5 10 15
 59 Leu Phe Phe Ile Asn Ser Glu Tyr Phe Gln Tyr Pro Ala Asn
 60 20 25 30

Does Not Comply
Corrected Diskette Reader

PP-3,6

RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

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63 <210> SEQ ID NO: 3
64 <211> LENGTH: 27
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapien
68 <400> SEQUENCE: 3
69 Gln Tyr Ile Asn Pro Ala Val Met Ile Thr Ile Arg Gly Ser Val His
70 1 5 10 15
71 Gln Asn Phe Ala Asp Phe Thr Phe Ala Thr Gly
72 20 25
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 19
77 <212> TYPE: PRT
78 <213> ORGANISM: Homo sapien
80 <400> SEQUENCE: 4
81 Trp Leu Met Gly Asn Ile Leu Arg Leu Leu Phe Gly Ser Met Thr Thr
82 1 5 10 15
83 Pro Ala Asn
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 420
89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapien
92 <220> FEATURE:
93 <221> NAME/KEY: misc_feature
94 <222> LOCATION: 265, 390, 395, 403, 406
95 <223> OTHER INFORMATION: n = A,T,C or G
97 <400> SEQUENCE: 5
98 aaaaaaaccta ttttaatcct aattgtattt ctctattcct gaagagttct gtaacatgat 60
99 gtgttgattg gttgtgttaa tggttggtccc tggaataaga ttctcatcat ctccttcaat 120
100 caagcagtc cactgatcaa aatctttatg aagtcctaaa tgcttttgta agaatgctaa 180
101 tgaagctttg ttgctaagat caatagctgc atttgaatct atgtctccct ttaatttgag 240
W--> 102 catgtgtcca attattttgc cagtn gcaaaa agtgaagtca gcaaaaattct ggtgggactga 300
103 acccctgatt gtaatcatct ttctttcttt atcaggtgag tagcattttt tcatttttat 360
104 gatattagca ggatattgga aatattcagn gttgntaaaa agngngnggct gagggattct 420
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 379
109 <212> TYPE: DNA
110 <213> ORGANISM: Homo sapien
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: 84
115 <223> OTHER INFORMATION: n = A,T,C or G
117 <400> SEQUENCE: 6
118 tgctaatatc ataaaaatga aaaaatgcta ctcacctgat aaagaaagaa agatgattac 60
W--> 119 aatcaggggt tcagtccacc aganttttgc tgacttcaact tttgcaactg gcaaaaataat 120
120 tggacacatg ctcaaattaa agggagacat agattcaaat gtagctattg atcttagcaa 180
121 caaagcttca ttagcattct tacaaaagca tttaggactt cataaagatt ttgttcagtg 240
122 ggactgcttg attgaaggag atgatgagaa tcttattcca gggaccaaca ttaacacaac 300
123 caattcaaca catcatgttt acagaacttc ttccagggaa taggaggaaa tacaattggg 360
124 gttttaaata ggtttttttt 379

```

RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

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126 <210> SEQ ID NO: 7
127 <211> LENGTH: 279
128 <212> TYPE: DNA
129 <213> ORGANISM: Homo sapien
W--> 131 <220> FEATURE: Feature delete
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: 257
134 <223> OTHER INFORMATION: n = A,T,C or G
136 <400> SEQUENCE: 7
137 gaagaatgca ttagatttaa agtttgatat ggaacaactg aaggactcta ttgataggga 60
138 aaaaatagca gtaattggac attcttttgg tggagcaacg gttattcaga ctcttagtga 120
139 agatcagaga ttcagatgtg gtattgccct ggatgcatgg atgtttccac tgggtgatga 180
140 agtatattcc agaattcctc agccctcttt tttatcaac tctgaatatt tccaatatcc 240
W--> 141 tgctaataatc ataaaaatgg aaaaatgcta ctcacctgg 279
143 <210> SEQ ID NO: 8
144 <211> LENGTH: 572
145 <212> TYPE: DNA
146 <213> ORGANISM: Homo sapien
148 <400> SEQUENCE: 8
149 aaaatagcag taattggaca ttcttttaggt ggagcaacgg ttattcagac tcttagtgaa 60
150 gatcagagat tcagatgtgg tattgccctg gatgcatgga tgtttccact ggggtgatgaa 120
151 gtatattcca gaattcctca gcccctcttt tttatcaact ctgaatattt ccaatatcct 180
152 gctaatatca taaaaatgaa aaaaatgctac tcacctgata aagaaagaaa gatgattaca 240
153 atcaggggtt cagtccacca gaattttgct gacttcactt ttgcaactgg caaaataatt 300
154 ggacacatgc tcaaattaaa gggagacata gattcaaatg tagctattga tcttagcaac 360
155 aaagcttcat cagcattctt acaaaaagcat ttaggacttc ataaagattt tgatcagtgg 420
156 gactgcttga ttgaaggaga tgatgagaat cttattccag ggaccaacat taacacaacc 480
157 aatcaacaca tcatgttaca gaactcttca ggaatagaga aatacaatta ggattaaaa 540
158 aggtttttta aaaaaaaaaa aaaaaaaact cg 572
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 1361
162 <212> TYPE: DNA
163 <213> ORGANISM: Homo sapien
165 <400> SEQUENCE: 9
166 tgagagacta agctgaaact gctgctcagc tcccaagatg gtgccacca aattgcatgt 60
167 gcttttctgc ctctgctggc gcctggctgt gggtttatcct tttgactggc aatacataaa 120
168 tcctgttgcc catatgaaat catcagcatg ggtcaacaaa atacaagtac tgatggctgc 180
169 tgcaagcttt ggccaaacta aaatcccccg gggaaatggg ccttattccg ttggtgtgac 240
170 agacttaatg tttgatcaca ctaataaggg caccttcttg cgtttatatt atccatccca 300
171 agataatgat cgccttgaca ccctttggat cccaaataaa gaatattttt ggggtcttag 360
172 caaatttctt ggaacacact ggcttatggg caacattttg aggttactct ttggttcaat 420
173 gacaactcct gcaaaactgga attcccctct gaggcctggg gaaaaatatt cacttggtgt 480
174 tttttctcat ggtcttgggg cattcaggac actttattct gctattggca ttgacctggc 540
175 atctcatggg tttatagttg ctgctgtaga acacagagat agatctgcat ctgcaactta 600
176 ctatttcaag gaccaatctg ctgcagaaat aggggacaag tcttggctct accttagaac 660
177 cctgaaacaa gaggaggaga cacatatacg aaatgagcag gtacggcaaa gagcaaaaga 720
178 atgttcccaa gctctcagtc tgattcttga cattgatcat ggaaagccag tgaagaatgc 780
179 attagattta aagtttgata tggaacaact gaaggactct attgataggg aaaaaatagc 840
180 agtaattgga cattcttttg gtggagcaac gggtattcag actcttagtg aagatcagag 900

```

RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

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181 attcagatgt ggtattgccc tggatgcatg gatgtttcca ctgggtgatg aagtatatc 960
182 cagaattcct cagcccctct tttttatcaa ctctgaatat ttccaatatc ctgctaatat 1020
183 cataaaaaatg aaaaaatgct actcacctga taaagaaaga aagatgatta caatcagggg 1080
184 ttcagtccac cagaattttg ctgacttcac ttttgcaact ggcaaaataa ttggacacat 1140
185 gctcaaatta aaggagagaca tagattcaaa tgcagctatt gatcttagca acaaagcttc 1200
186 attagcattc ttacaaaagc atttaggact tcataaagat tttgatcagt gggactgctt 1260
187 gattgaagga gatgatgaga atcttattcc agggaccaac attaacacaa ccaatcaaca 1320
188 catcatgtta cagaactctt caggaataga gaaatacaat t 1361
191 <210> SEQ ID NO: 10
192 <211> LENGTH: 7
193 <212> TYPE: PRT
194 <213> ORGANISM: Homo sapien
196 <400> SEQUENCE: 10
197 Gln Tyr Ile Asn Pro Val Ala
198 1 5
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 20
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo sapien
206 <400> SEQUENCE: 11
207 Met Ile Thr Ile Arg Gly Ser Val His Gln Asn Phe Ala Asp Phe Thr
208 1 5 10 15
209 Phe Ala Thr Gly
210 20
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 7
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapien
218 <400> SEQUENCE: 12
219 Gln Tyr Ile Asn Pro Ala Val
220 1 5
223 <210> SEQ ID NO: 13
224 <211> LENGTH: 5
225 <212> TYPE: PRT
226 <213> ORGANISM: Homo sapien
228 <400> SEQUENCE: 13
229 Gln Tyr Ile Asn Pro
230 1 5
233 <210> SEQ ID NO: 14
234 <211> LENGTH: 441
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapien
238 <400> SEQUENCE: 14
239 Met Val Pro Pro Lys Leu
240 1 5
242 His Val Leu Phe Cys Leu Cys Gly Cys Leu Ala Val Val Tyr Pro Phe
243 10 15 20
245 Asp Trp Gln Tyr Ile Asn Pro Val Ala His Met Lys Ser Ser Ala Trp
246 25 30 35

```

RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

```

248 Val Asn Lys Ile Gln Val Leu Met Ala Ala Ala Ser Phe Gly Gln Thr
249      40                      45                      50
251 Lys Ile Pro Arg Gly Asn Gly Pro Tyr Ser Val Gly Cys Thr Asp Leu
252 55                      60                      65                      70
254 Met Phe Asp His Thr Asn Lys Gly Thr Phe Leu Arg Leu Tyr Tyr Pro
255                      75                      80                      85
257 Ser Gln Asp Asn Asp Arg Leu Asp Thr Leu Trp Ile Pro Asn Lys Glu
258                      90                      95                      100
260 Tyr Phe Trp Gly Leu Ser Lys Phe Leu Gly Thr His Trp Leu Met Gly
261                      105                      110                      115
263 Asn Ile Leu Arg Leu Leu Phe Gly Ser Met Thr Thr Pro Ala Asn Trp
264 120                      125                      130
266 Asn Ser Pro Leu Arg Pro Gly Glu Lys Tyr Pro Leu Val Val Phe Ser
267 135                      140                      145                      150
269 His Gly Leu Gly Ala Phe Arg Thr Leu Tyr Ser Ala Ile Gly Ile Asp
270                      155                      160                      165
272 Leu Ala Ser His Gly Phe Ile Val Ala Ala Val Glu His Arg Asp Arg
273                      170                      175                      180
275 Ser Ala Ser Ala Thr Tyr Tyr Phe Lys Asp Gln Ser Ala Ala Glu Ile
276                      185                      190                      195
278 Gly Asp Lys Ser Trp Leu Tyr Leu Arg Thr Leu Lys Gln Glu Glu Glu
279 200                      205                      210
281 Thr His Ile Arg Asn Glu Gln Val Arg Gln Arg Ala Lys Glu Cys Ser
282 215                      220                      225                      230
284 Gln Ala Leu Ser Leu Ile Leu Asp Ile Asp His Gly Lys Pro Val Lys
285                      235                      240                      245
287 Asn Ala Leu Asp Leu Lys Phe Asp Met Glu Gln Leu Lys Asp Ser Ile
288                      250                      255                      260
290 Asp Arg Glu Lys Ile Ala Val Ile Gly His Ser Phe Gly Gly Ala Thr
291                      265                      270                      275
293 Val Ile Gln Thr Leu Ser Glu Asp Gln Arg Phe Arg Cys Gly Ile Ala
294 280                      285                      290
296 Leu Asp Ala Trp Met Phe Pro Leu Gly Asp Glu Val Tyr Ser Arg Ile
297 295                      300                      305                      310
299 Pro Gln Pro Leu Phe Phe Ile Asn Ser Glu Tyr Phe Gln Tyr Pro Ala
300                      315                      320                      325
302 Asn Ile Ile Lys Met Lys Lys Cys Tyr Ser Pro Asp Lys Glu Arg Lys
303                      330                      335                      340
305 Met Ile Thr Ile Arg Gly Ser Val His Gln Asn Phe Ala Asp Phe Thr
306                      345                      350                      355
308 Phe Ala Thr Gly Lys Ile Ile Gly His Met Leu Lys Leu Lys Gly Asp
309 360                      365                      370
311 Ile Asp Ser Asn Ala Ala Ile Asp Leu Ser Asn Lys Ala Ser Leu Ala
312 375                      380                      385                      390
314 Phe Leu Gln Lys His Leu Gly Leu His Lys Asp Phe Asp Gln Trp Asp
315                      395                      400                      405
317 Cys Leu Ile Glu Gly Asp Asp Glu Asn Leu Ile Pro Gly Thr Asn Ile
318                      410                      415                      420
320 Asn Thr Thr Asn Gln His Ile Met Leu Gln Asn Ser Ser Gly Ile Glu

```

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(Sequence 14-end)

Lys Tyr Asn
440

1/6

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/922,067F

DATE: 01/03/2005
TIME: 11:27:22

Input Set : A:\SEQ LIST p30693c4x1c1.txt
Output Set: N:\CRF4\01032005\I922067F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 265, 390, 395, 403, 406
Seq#:6; N Pos. 84
Seq#:7; N Pos. 257

VERIFICATION SUMMARY

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:22

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:240
M:341 Repeated in SeqNo=5
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60
L:131 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240